

1/4

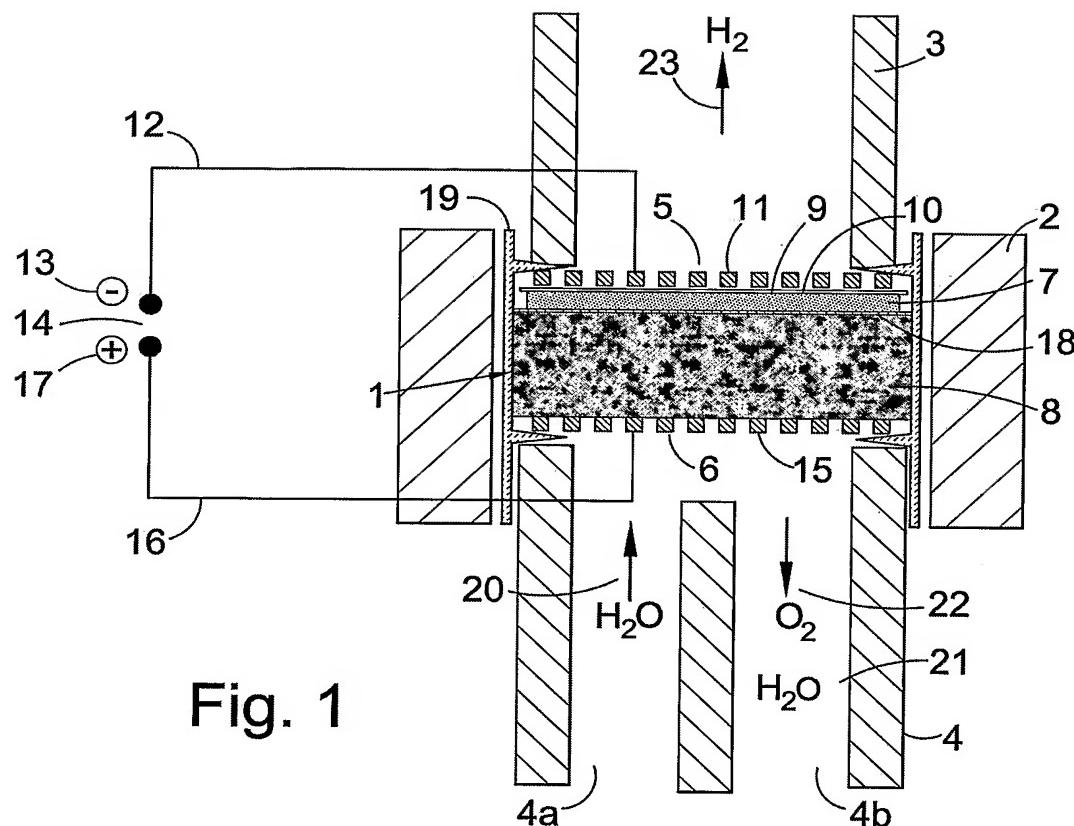


Fig. 1

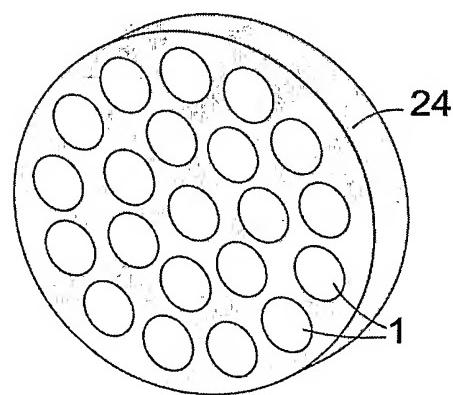
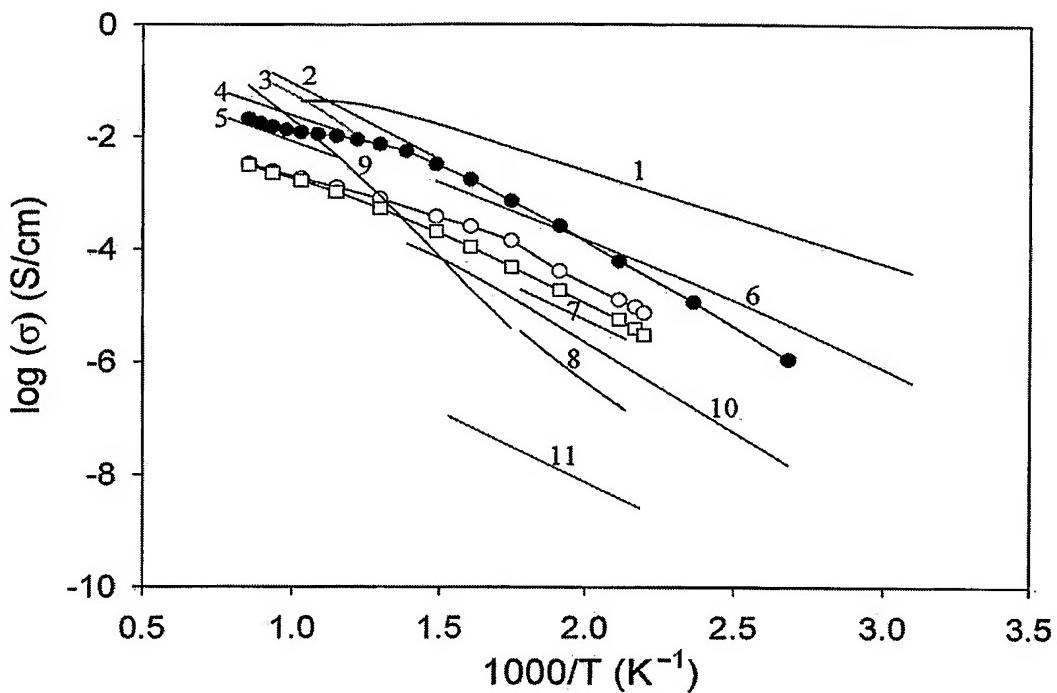


Fig. 2

2/4

Key:

- (1)  $\text{BaZr}_{0.8}\text{Y}_{0.2}\text{O}_{2.9}$  bulk (deduced) [1];
- (2)  $\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_{1.9}$  [2];
- (3)  $\text{a}_{0.9}\text{Sr}_{0.1}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_{2.95}$  [3];
- (4)  $\text{BaCe}_{0.9}\text{Y}_{0.1}\text{O}_{2.95}$  [4];
- (5)  $\text{BaCe}_{0.5}\text{Zr}_{0.4}\text{Y}_{0.1}\text{O}_{2.95}$  [4];
- (6)  $\text{BaZr}_{0.8}\text{Y}_{0.2}\text{O}_{2.9}$  total [5];
- (7)  $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_{2.95}$  bulk [6];
- (8)  $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_{2.95}$  total [6];
- (9)  $\text{Y}_{0.15}\text{Zr}_{0.85}\text{O}_{2-\delta}$  (YSZ) [2];
- (10)  $\text{BaCe}_{0.7}\text{Zr}_{0.2}\text{Nd}_{0.1}\text{O}_{3-\delta}$  [7];
- (11)  $\text{BaZr}_{0.8}\text{Y}_{0.2}\text{O}_{2.9}$  film total [8];
- $\text{Ba}_{0.97}\text{Zr}_{0.77}\text{Y}_{0.19}\text{Zn}_{0.04}\text{O}_{3-\delta}$  bulk in wet 5%H<sub>2</sub>;
- $\text{Ba}_{0.97}\text{Zr}_{0.77}\text{Y}_{0.19}\text{Zn}_{0.04}\text{O}_{3-\delta}$  total in wet 5%H<sub>2</sub>;
- $\text{BaCe}_{0.5}\text{Zr}_{0.3}\text{Y}_{0.16}\text{Zn}_{0.04}\text{O}_{3-\delta}$  total in wet 5%H<sub>2</sub>.

**Fig. 3**  
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3/4

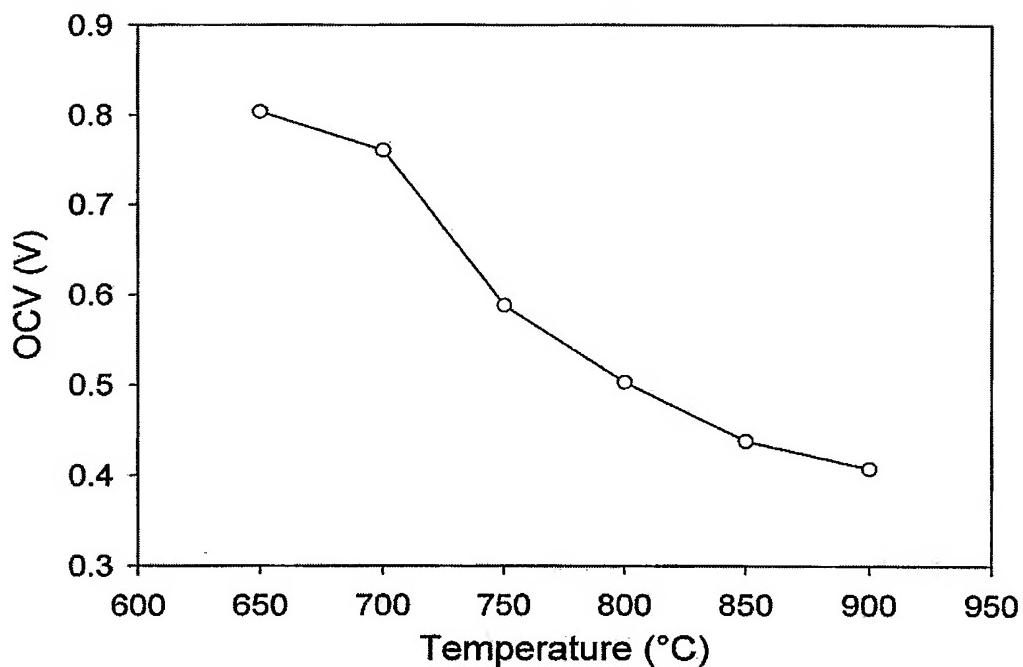


Fig. 4

4/4

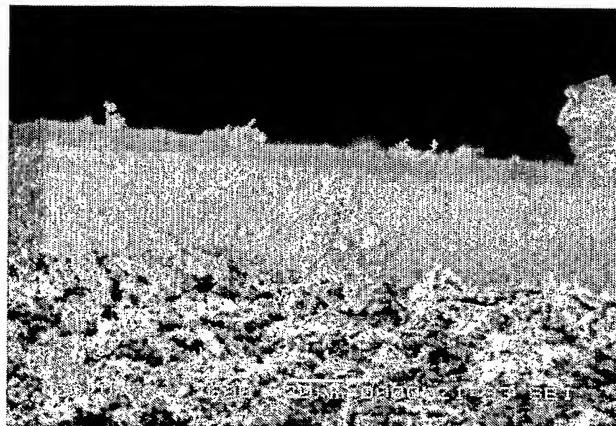


Fig. 5

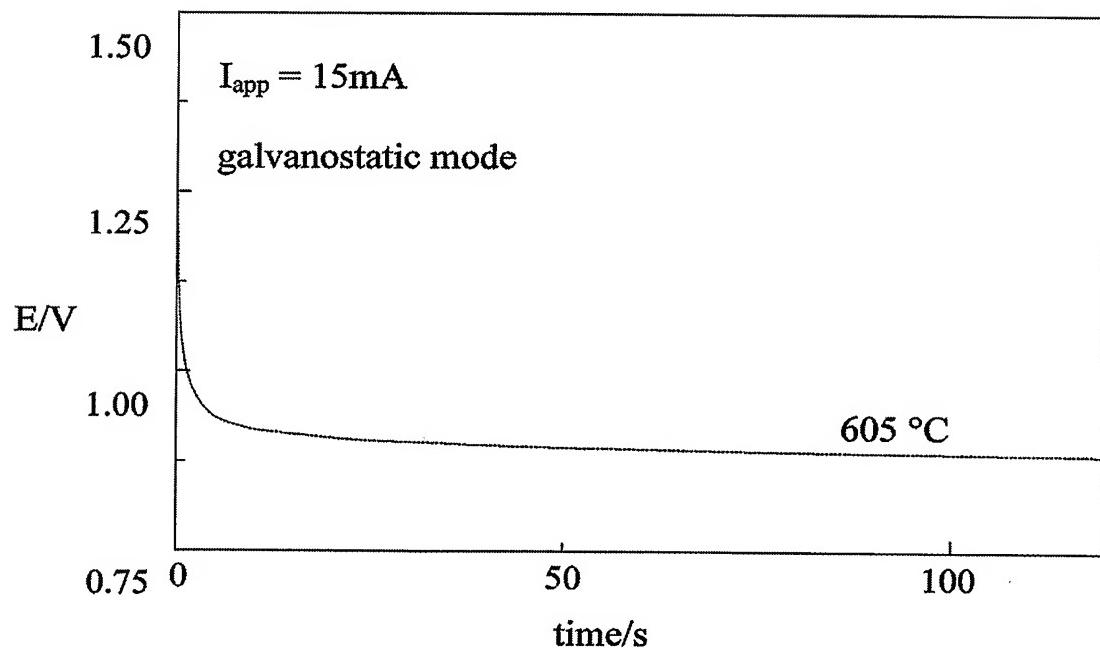


Fig. 6

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